

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031869.D
 Acq On : 12 Apr 2018 17:27
 Operator : SY/AP
 Sample : J2191-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF2-040218

Manual Integrations
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 4/15/2018 3:07:32 PM

Quant Time: Apr 14 03:25:50 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1091855	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2203002	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2212158	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	1743654	9.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.17	85	315891	1.403	ppbv	99
3) Chlorodifluoromethane	3.10	51	51083	0.402	ppbv #	86
4) Chloromethane	3.26	50	9842m	0.152	ppbv	
7) Chloroethane	3.70	64	23326	0.802	ppbv #	87
9) Propene	3.14	41	25324m	0.577	ppbv	
11) Trichlorofluoromethane	4.11	101	1306031	5.915	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	29219	0.204	ppbv	99
13) Ethanol	3.76	45	23878	1.602	ppbv	86
15) Acetone	4.01	43	1420500	8.453	ppbv	99
17) tert-Butyl alcohol	4.48	59	70244m	1.012	ppbv	
20) Methylene Chloride	4.52	84	742514	12.131	ppbv	92
24) 1,1-Dichloroethane	5.22	63	432744	2.549	ppbv	99
26) Hexane	5.91	57	81894	0.670	ppbv #	43
29) Chloroform	5.98	83	31098	0.150	ppbv	96
31) cis-1,2-Dichloroethene	5.77	61	254211	2.296	ppbv	99
32) 1,1,1-Trichloroethane	6.76	97	910634	4.514	ppbv	99
34) 2-Butanone	5.46	43	115523	0.756	ppbv	99
35) Carbon Tetrachloride	7.28	117	14790m	0.077	ppbv	
36) Benzene	7.14	78	243061	1.227	ppbv	98
38) Trichloroethene	8.10	130	999588	12.427	ppbv	99
51) 2-Hexanone	10.44	43	37854m	0.248	ppbv	
52) Tetrachloroethene	11.52	164	25975m	0.336	ppbv	
53) Toluene	10.10	91	49693m	0.225	ppbv	
62) Isopropylbenzene	14.97	105	117585m	0.343	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

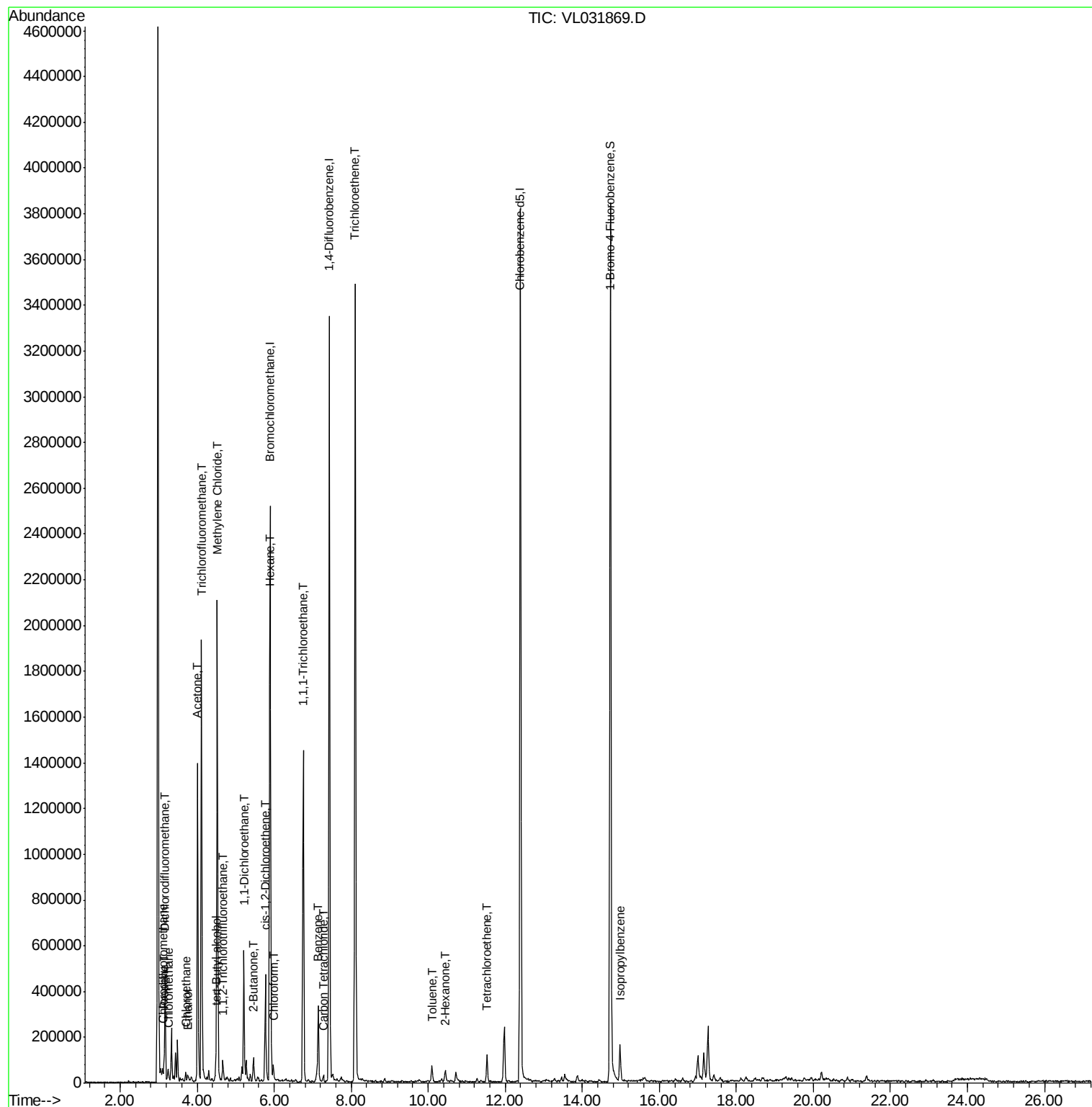
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
Data File : VL031869.D
Acq On : 12 Apr 2018 17:27
Operator : SY/AP
Sample : J2191-02
Misc : 400ml/MSVOA L
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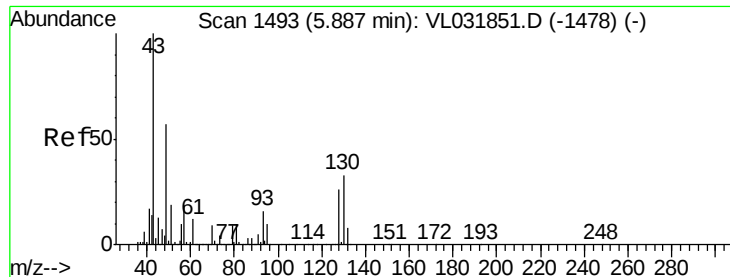
Instrument :
MSVOA_L
ClientSampleId :
SVE-INF2-040218

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Quant Time: Apr 14 03:25:50 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr
QLast Update : Fri Apr 13 16:50:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF2-040218

Tot Ion: 49 Resp: 1091855

Ion Ratio Lower Upper

49 100

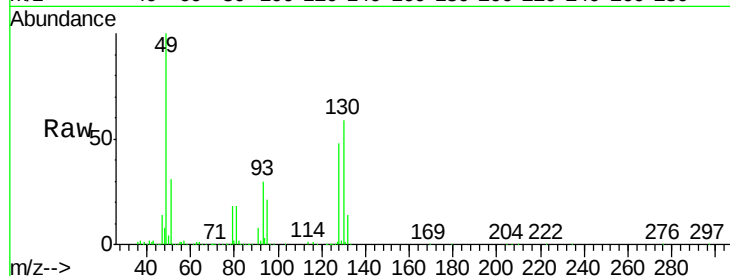
128 48.4 23.9 71.7

130 61.9 30.9 92.7

Manual Integrations
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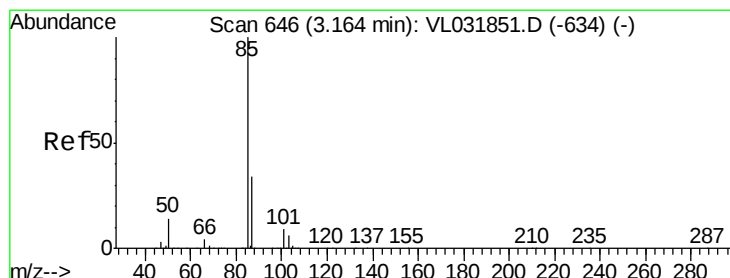
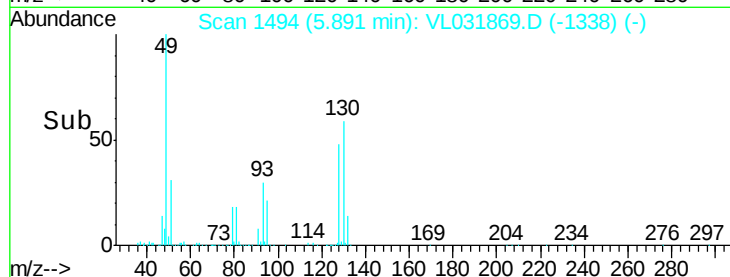
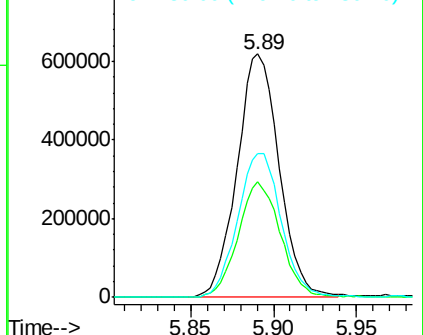
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.403 ppbv

RT: 3.17 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL031869.D

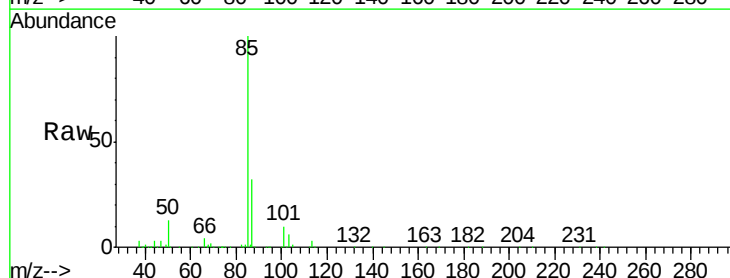
Acq: 12 Apr 2018 17:27

Tgt Ion: 85 Resp: 315891

Ion Ratio Lower Upper

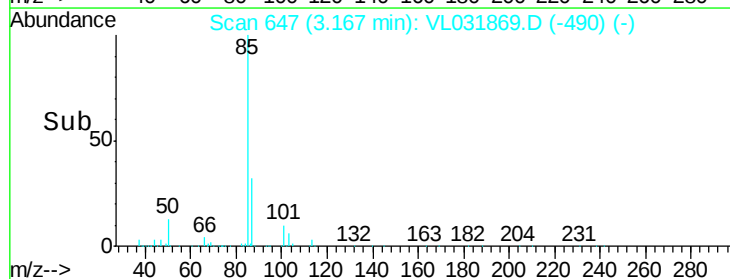
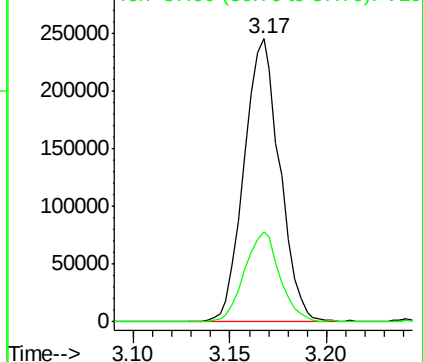
85 100

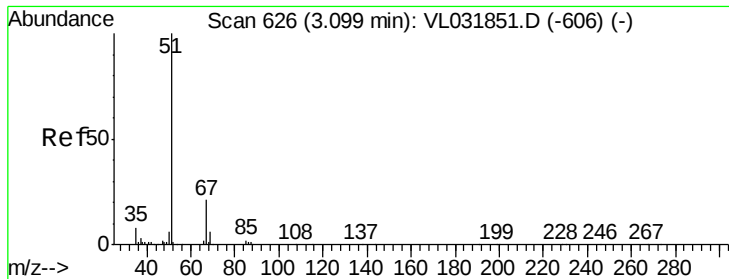
87 31.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.402 ppbv

RT: 3.10 min Scan# 627

Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF2-040218

Tot Ion: 51 Resp: 51083

Ion Ratio Lower Upper

51 100

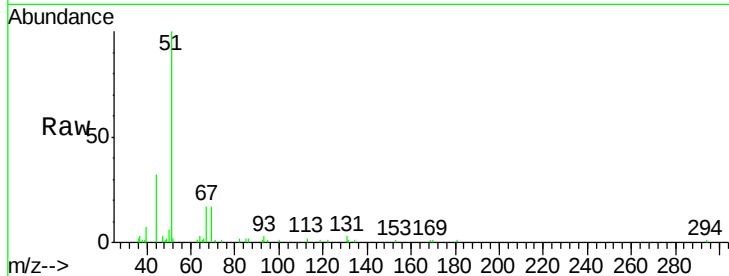
67 15.4 17.5 26.3#

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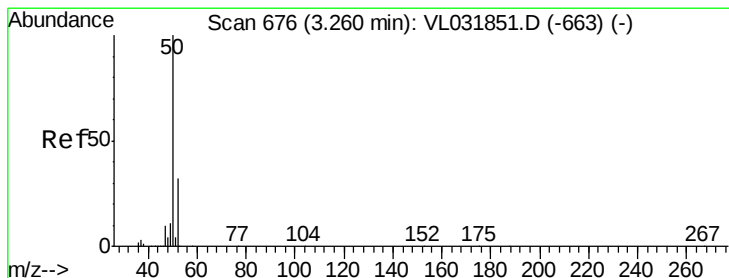
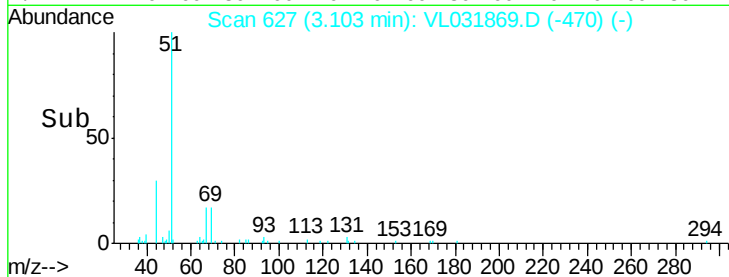
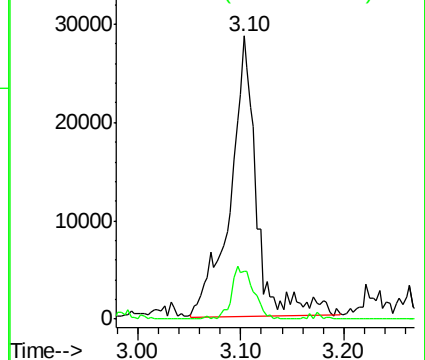
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.152 ppbv m

RT: 3.26 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL031869.D

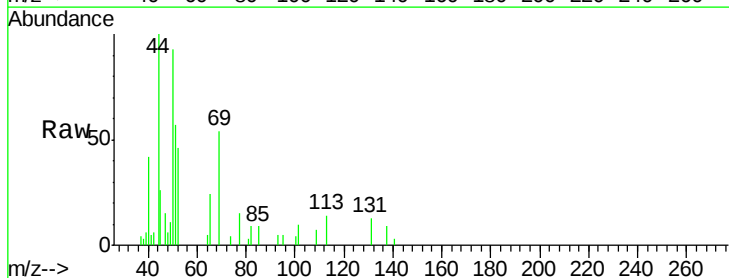
Acq: 12 Apr 2018 17:27

Tgt Ion: 50 Resp: 9842

Ion Ratio Lower Upper

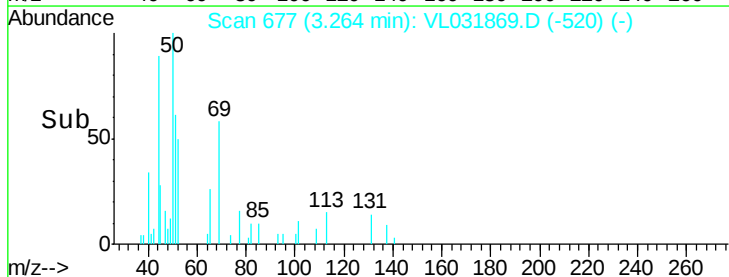
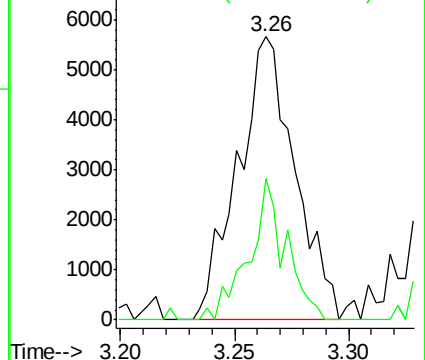
50 100

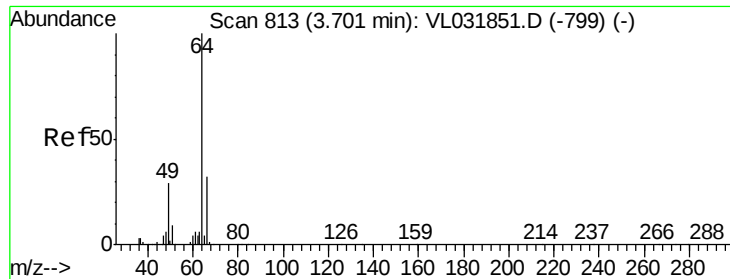
52 50.0 28.1 42.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.802 ppbv

RT: 3.70 min Scan# 813

Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF2-040218

Tot Ion: 64 Resp: 23326

Ion Ratio Lower Upper

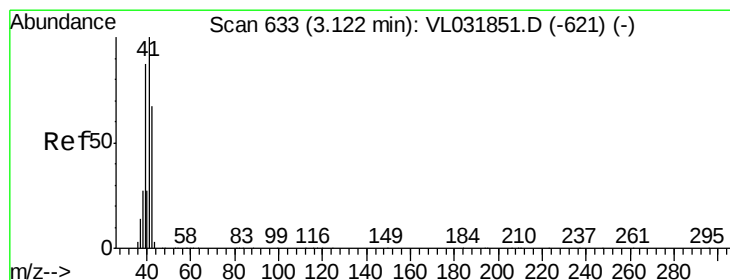
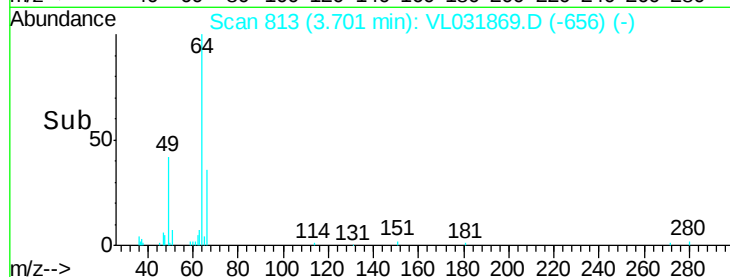
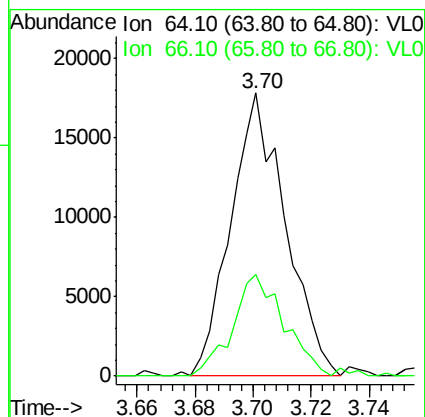
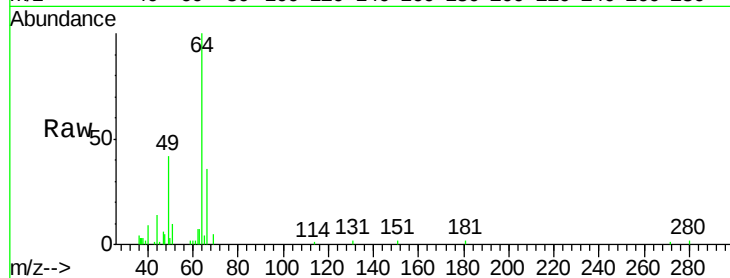
64 100

66 36.0 23.4 35.0#

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#9

Propene

Concen: 0.577 ppbv m

RT: 3.14 min Scan# 637

Delta R.T. 0.01 min

Lab File: VL031869.D

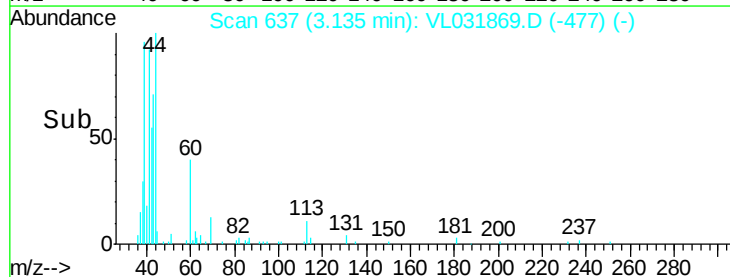
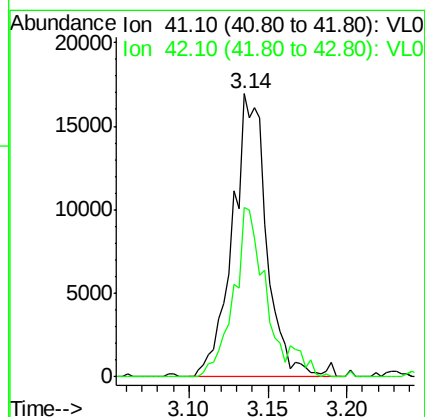
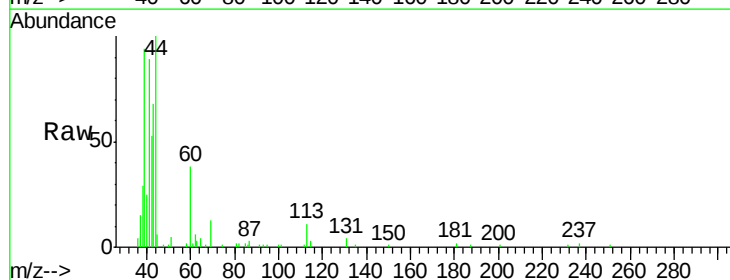
Acq: 12 Apr 2018 17:27

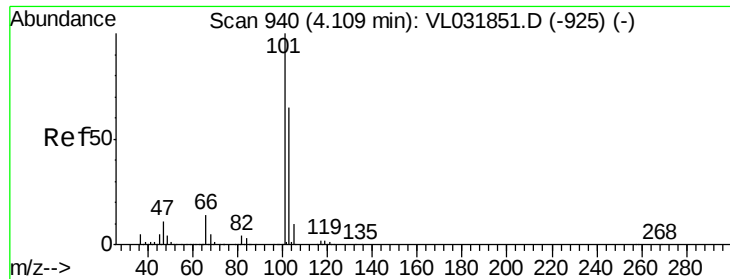
Tgt Ion: 41 Resp: 25324

Ion Ratio Lower Upper

41 100

42 58.2 55.0 82.4





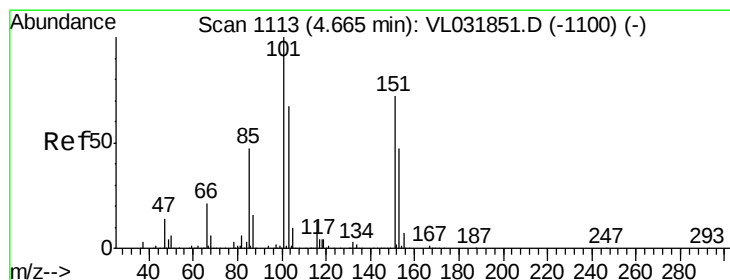
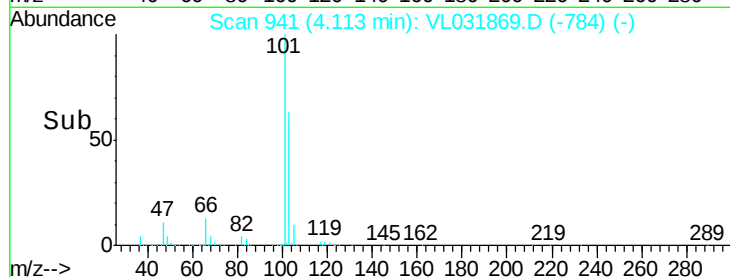
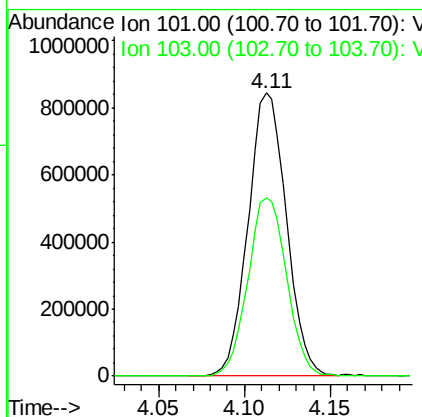
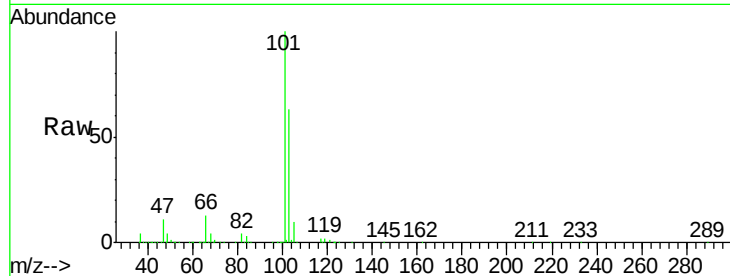
#11
 Trichlorofluoromethane
 Concen: 5.915 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VL031869.D
 Acq: 12 Apr 2018 17:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF2-040218

Tot Ion:101 Resp: 1306031
 Ion Ratio Lower Upper
 101 100
 103 63.2 51.8 77.8

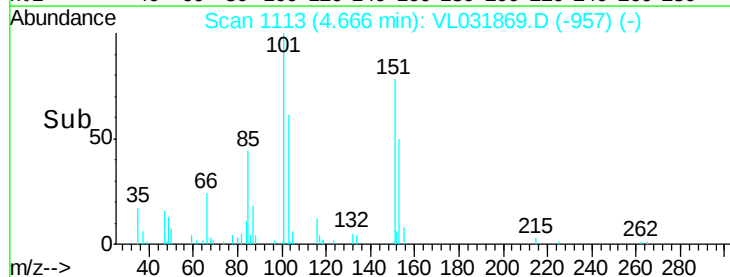
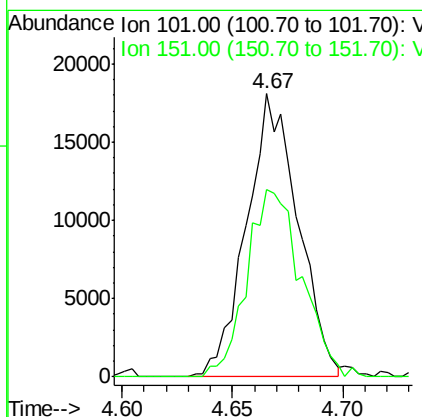
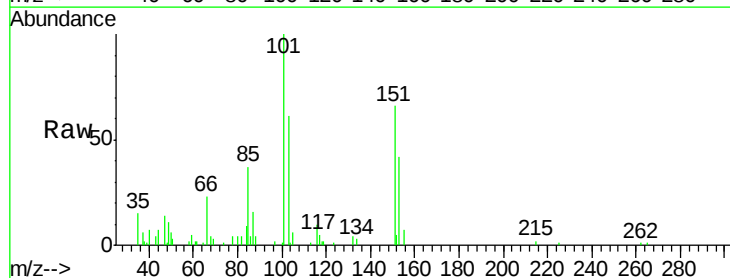
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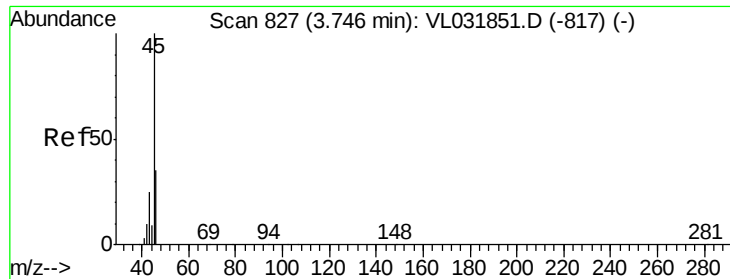
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.204 ppbv
 RT: 4.67 min Scan# 1113
 Delta R.T. 0.00 min
 Lab File: VL031869.D
 Acq: 12 Apr 2018 17:27

Tgt Ion:101 Resp: 29219
 Ion Ratio Lower Upper
 101 100
 151 70.2 57.0 85.6





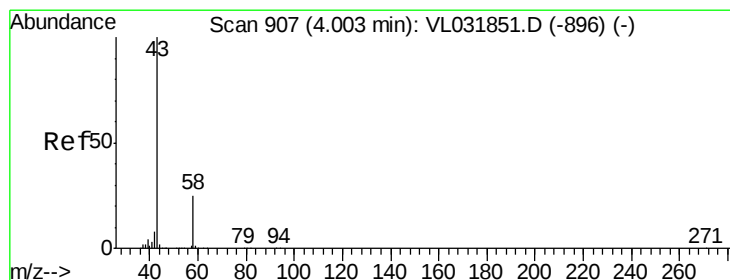
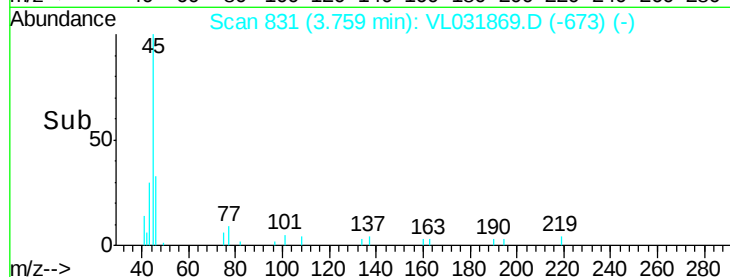
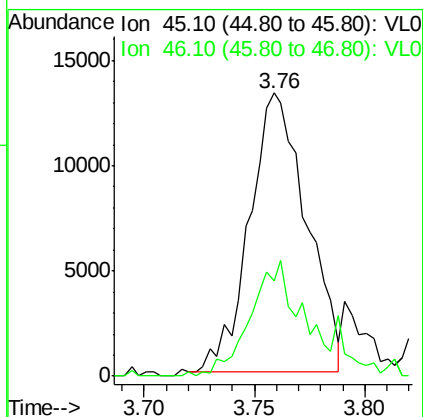
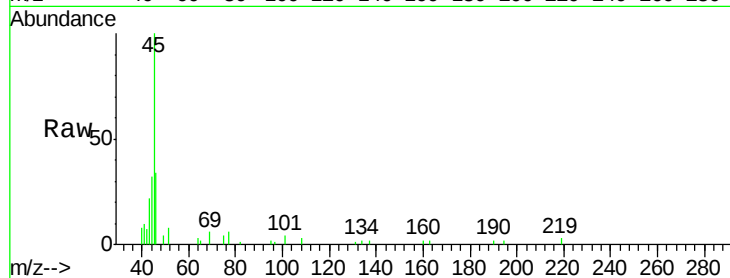
#13
Ethanol
Concen: 1.602 ppbv
RT: 3.76 min Scan# 831
Delta R.T. 0.01 min
Lab File: VL031869.D
Acq: 12 Apr 2018 17:27

Instrument :
MSVOA_L
ClientSampleId :
SVE-INF2-040218

Tot Ion	45	Resp	23878
Ion Ratio	100	Lower	Upper
46	44.6	14.6	58.6

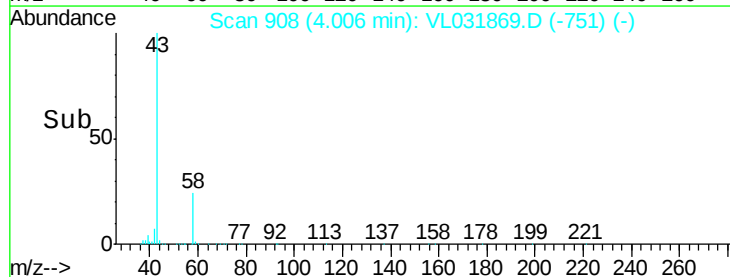
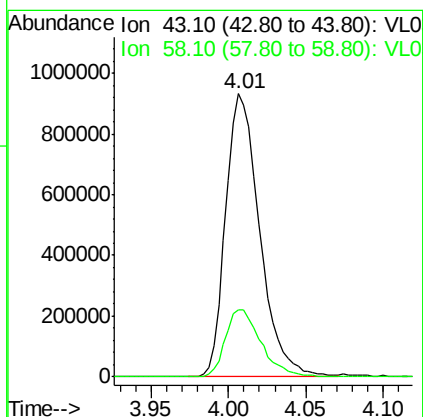
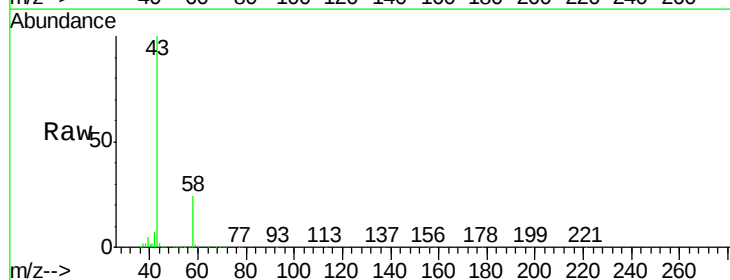
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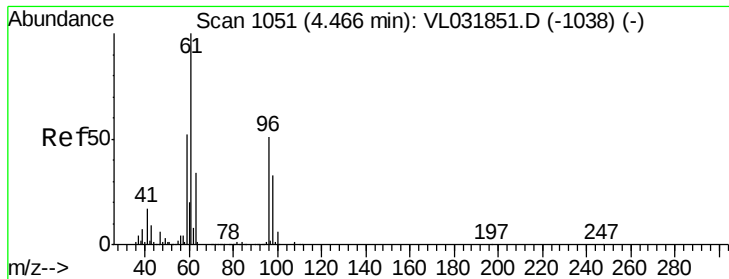
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#15
Acetone
Concen: 8.453 ppbv
RT: 4.01 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL031869.D
Acq: 12 Apr 2018 17:27

Tgt Ion	43	Resp	1420500
Ion Ratio	100	Lower	Upper
58	25.5	20.9	31.3





#17

tert-Butyl alcohol

Concen: 1.012 ppbv m

RT: 4.48 min Scan# 1056

Delta R.T. 0.02 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF2-040218

Tot Ion: 59 Resp: 70244

Ion Ratio Lower Upper

59 100

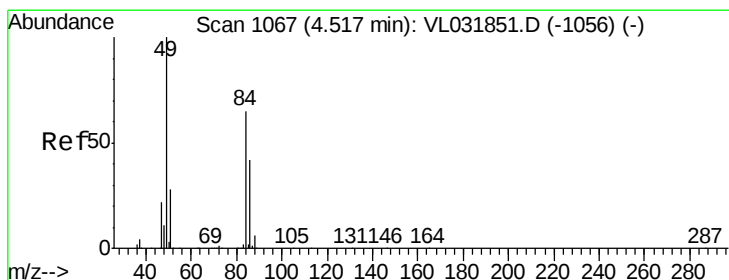
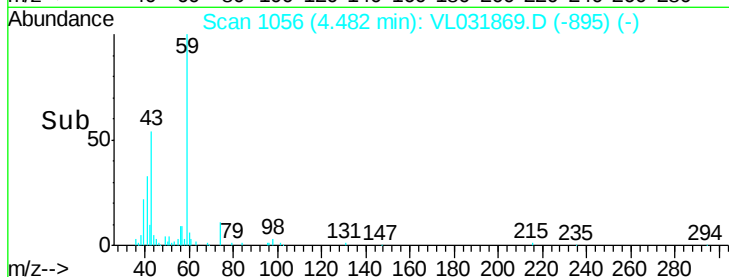
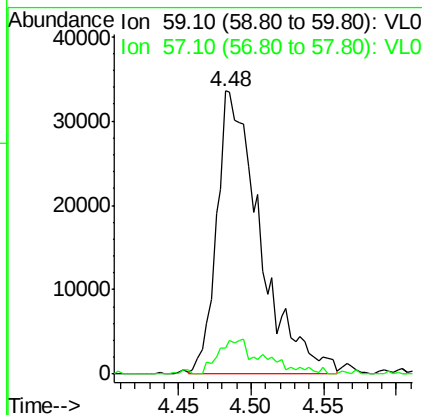
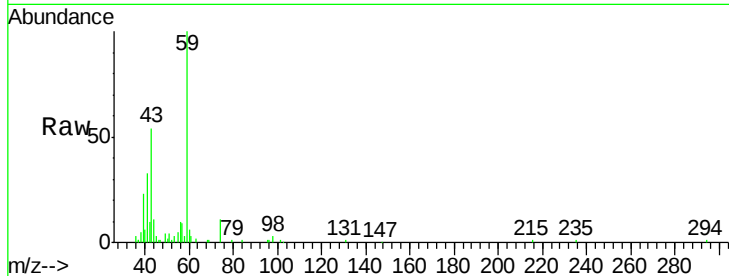
57 13.2 8.5 12.7#

Manual Integrations

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#20

Methylene Chloride

Concen: 12.131 ppbv

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Tgt Ion: 84 Resp: 742514

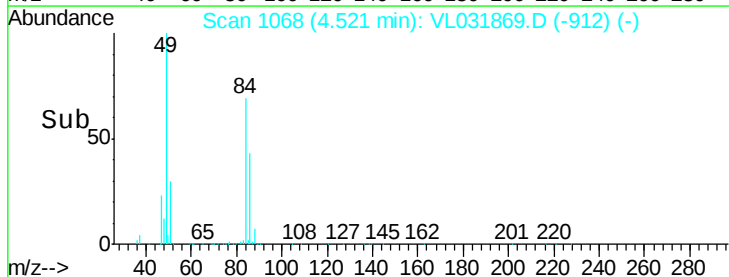
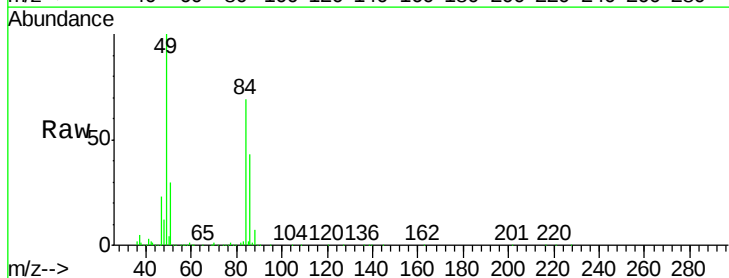
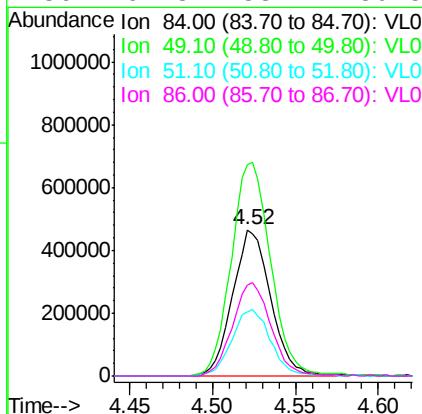
Ion Ratio Lower Upper

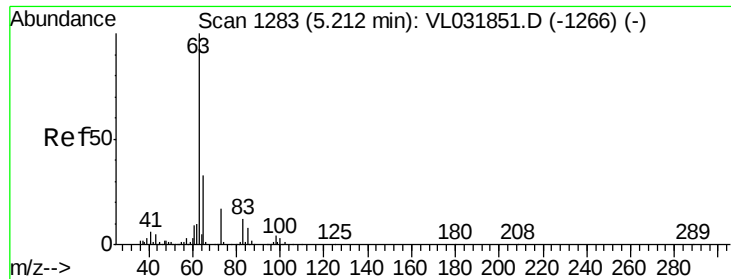
84 100

49 144.2 125.6 188.4

51 43.1 36.4 54.6

86 61.8 53.7 80.5





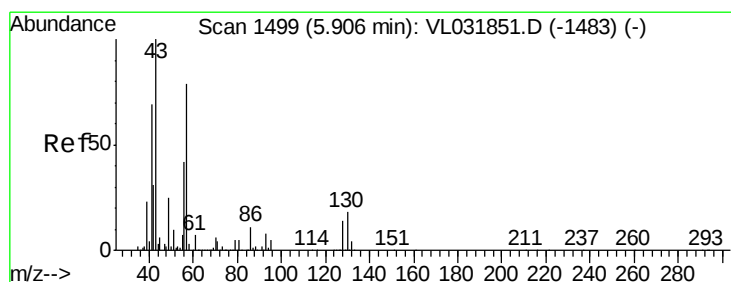
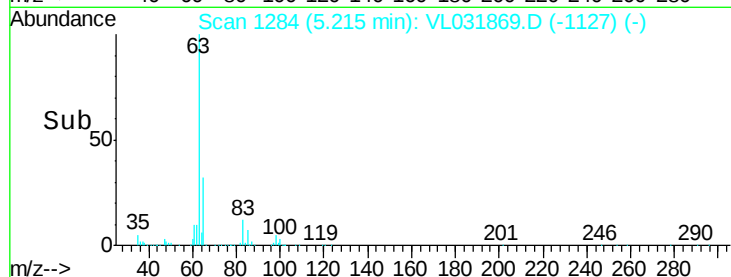
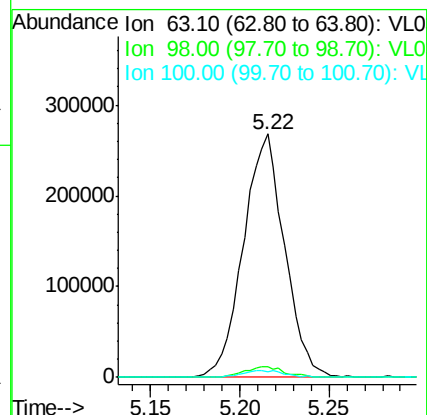
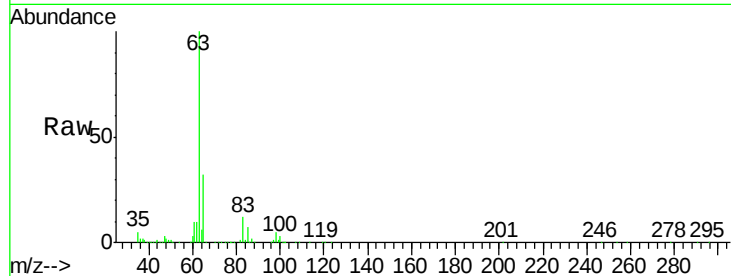
#24
 1,1-Dichloroethane
 Concen: 2.549 ppbv
 RT: 5.22 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: VL031869.D
 Acq: 12 Apr 2018 17:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF2-040218

Tot Ion	Ratio	Resp	Lower	Upper
63	100	432744		
98	4.5		2.4	7.2
100	2.5		1.5	4.4

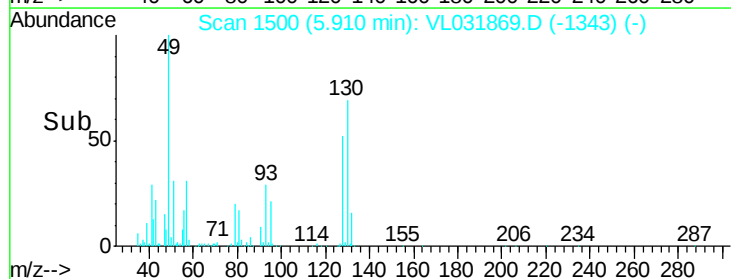
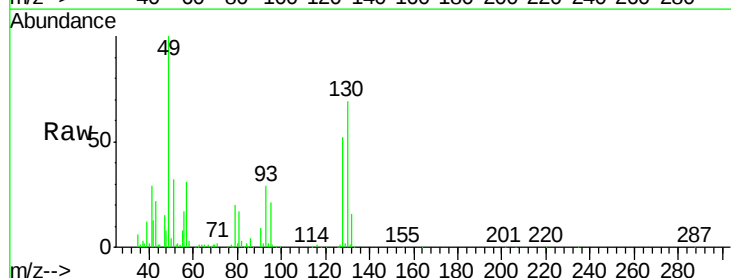
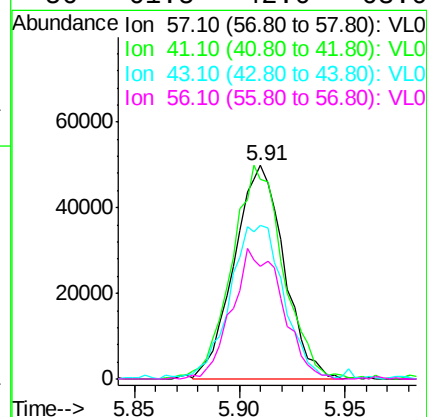
Manual Integrations
 APPROVED

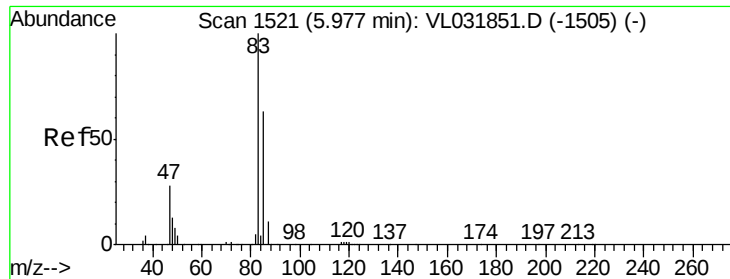
MMDadoda
 4/15/2018 3:07:32 PM



#26
 Hexane
 Concen: 0.670 ppbv
 RT: 5.91 min Scan# 1500
 Delta R.T. 0.00 min
 Lab File: VL031869.D
 Acq: 12 Apr 2018 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	81894		
41	104.3		72.0	108.0
43	77.8		169.8	254.8#
56	61.5		42.0	63.0





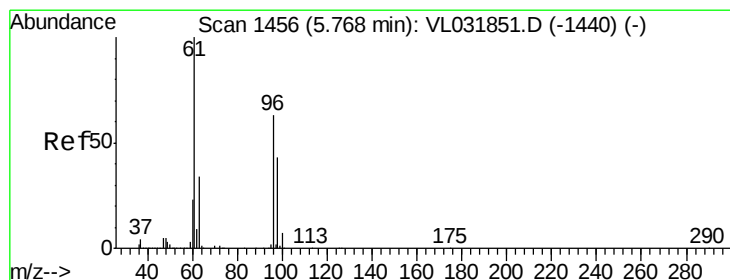
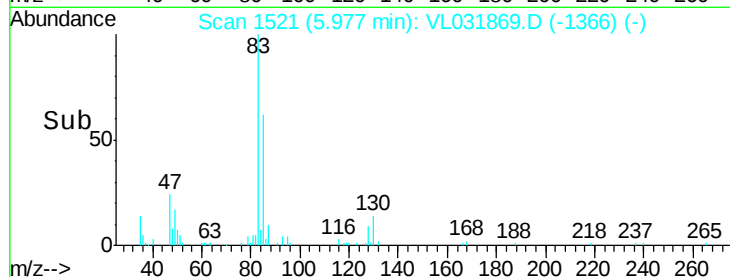
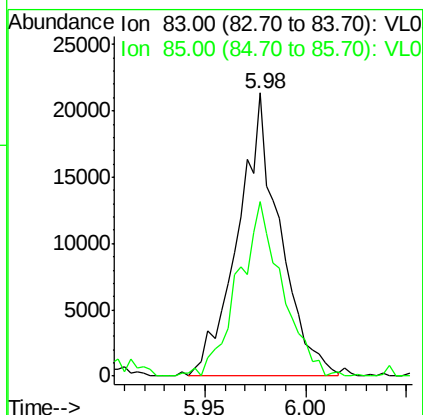
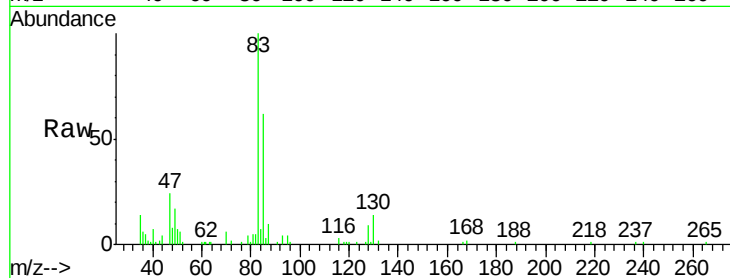
#29
Chloroform
Concen: 0.150 ppbv
RT: 5.98 min Scan# 1521
Delta R.T. -0.00 min
Lab File: VL031869.D
Acq: 12 Apr 2018 17:27

Instrument :
MSVOA_L
ClientSampleId :
SVE-INF2-040218

Tot Ion	83	Resp	31098
Ion Ratio	100	Lower	Upper
83	100		
85	60.8	51.4	77.0

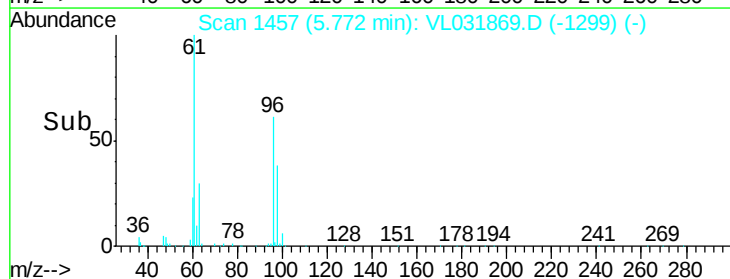
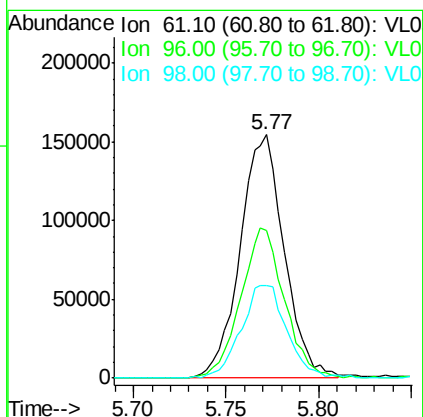
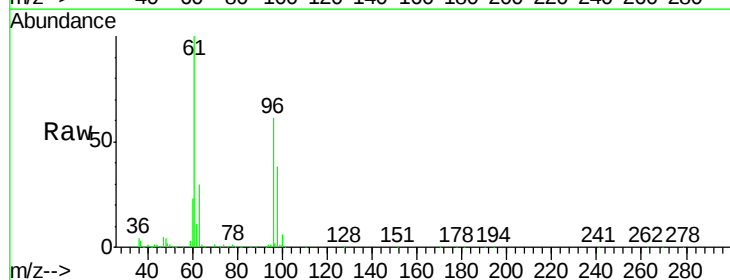
Manual Integrations
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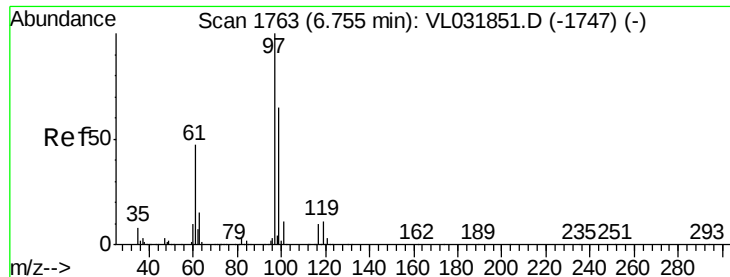
MMDadoda
4/15/2018 3:07:32 PM



#31
cis-1,2-Dichloroethene
Concen: 2.296 ppbv
RT: 5.77 min Scan# 1457
Delta R.T. 0.01 min
Lab File: VL031869.D
Acq: 12 Apr 2018 17:27

Tgt Ion	61	Resp	254211
Ion Ratio	100	Lower	Upper
61	100		
96	60.7	47.6	71.4
98	38.0	30.3	45.5





#32

1,1,1-Trichloroethane

Concen: 4.514 ppbv

RT: 6.76 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

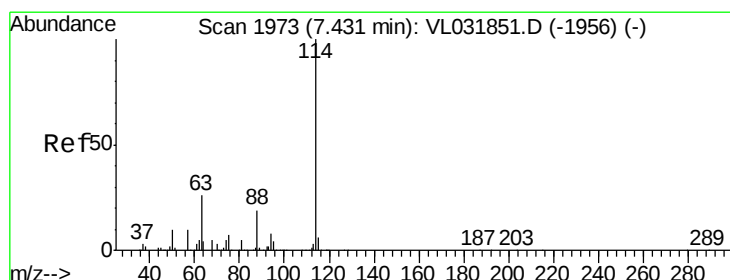
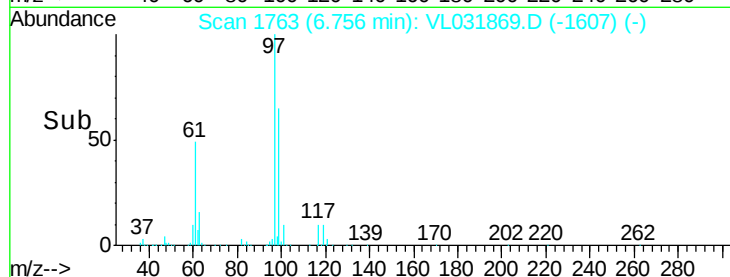
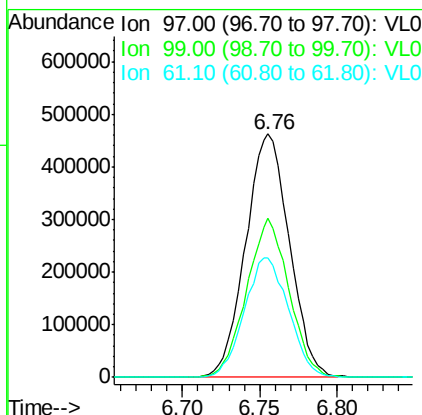
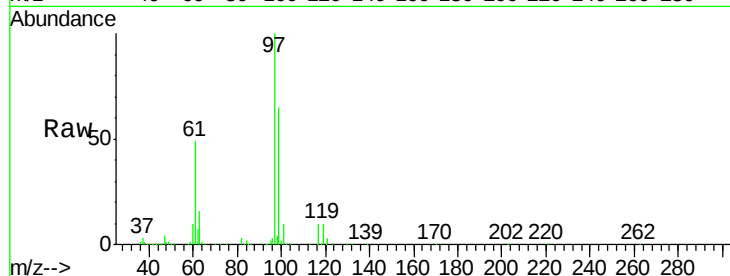
ClientSampleId :

SVE-INF2-040218

Tot Ion:	97	Resp:	910634
Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.5	77.3
61	49.8	40.0	60.0

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

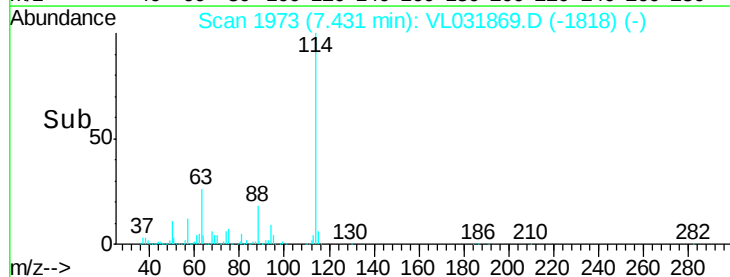
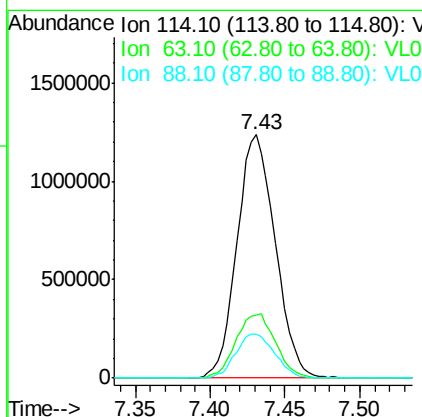
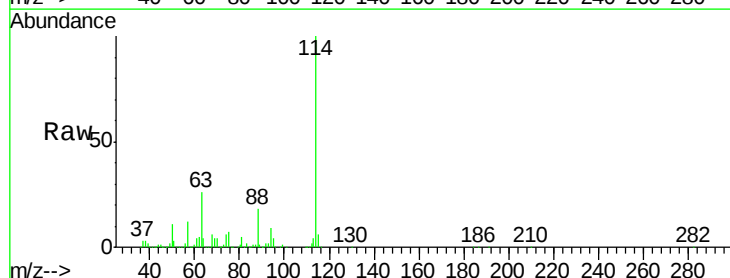
RT: 7.43 min Scan# 1973

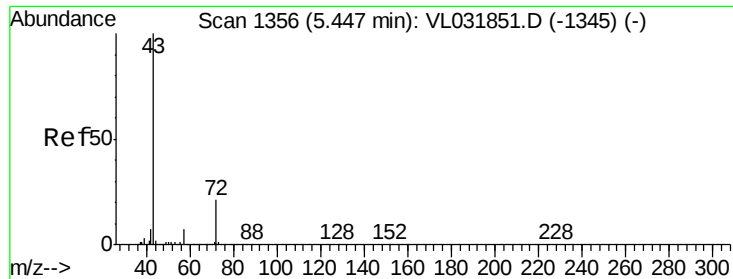
Delta R.T. -0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Tgt Ion:	114	Resp:	2203002
Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.8	32.6
88	18.6	14.6	22.0





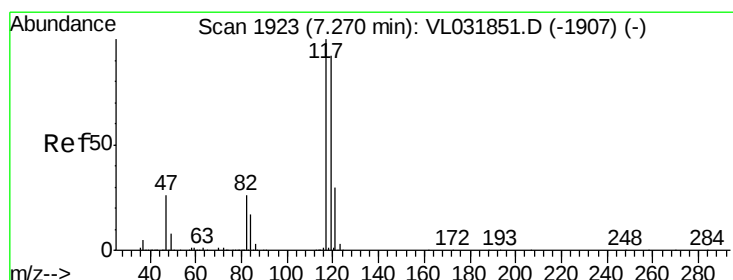
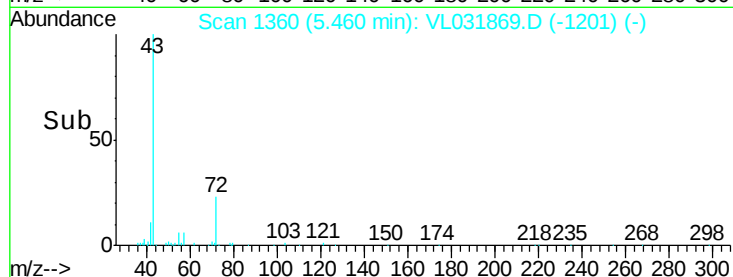
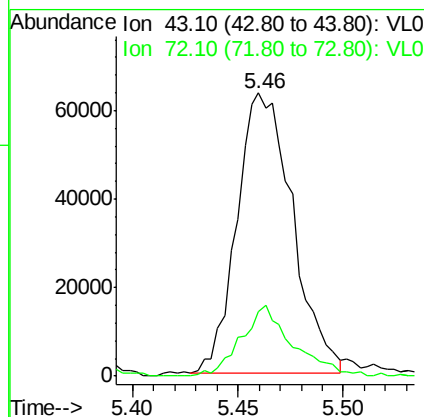
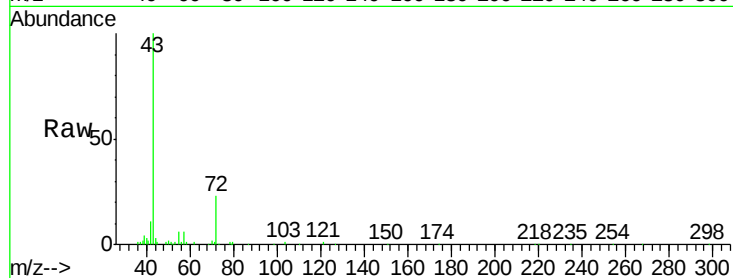
#34
2-Butanone
Concen: 0.756 ppbv
RT: 5.46 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VL031869.D
Acq: 12 Apr 2018 17:27

Instrument :
MSVOA_L
ClientSampleId :
SVE-INF2-040218

Tot Ion: 43 Resp: 115523
Ion Ratio Lower Upper
43 100
72 23.8 18.6 27.8

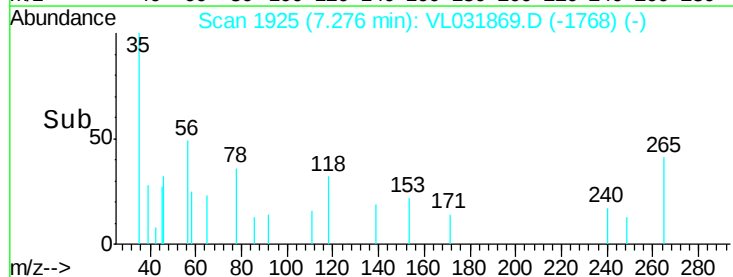
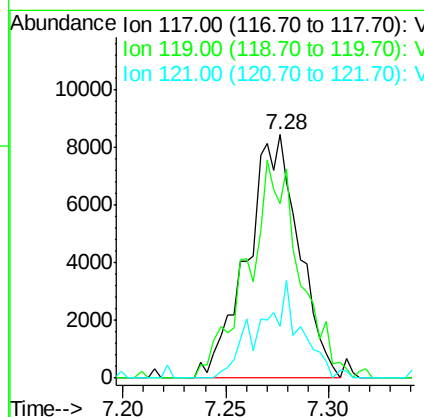
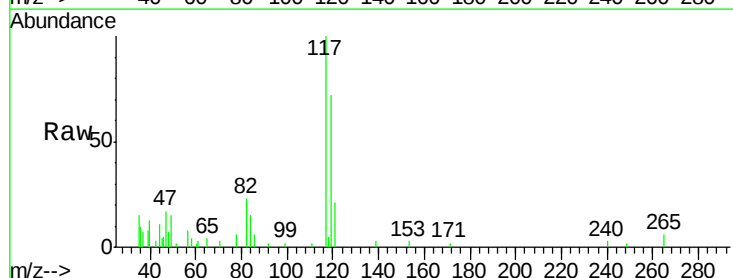
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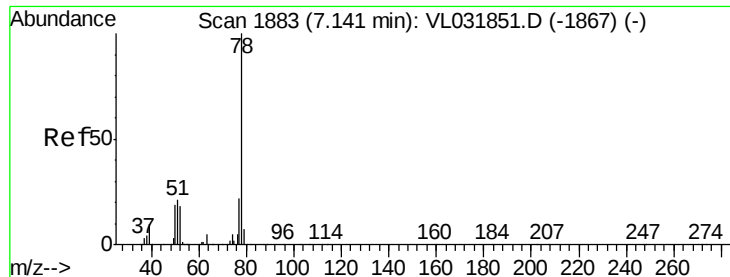
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#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 7.28 min Scan# 1925
Delta R.T. 0.00 min
Lab File: VL031869.D
Acq: 12 Apr 2018 17:27

Tgt Ion: 117 Resp: 14790
Ion Ratio Lower Upper
117 100
119 71.7 76.9 115.3#
121 21.2 24.5 36.7#





#36

Benzene

Concen: 1.227 ppbv

RT: 7.14 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

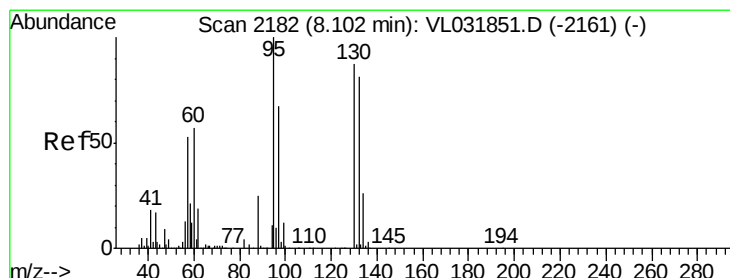
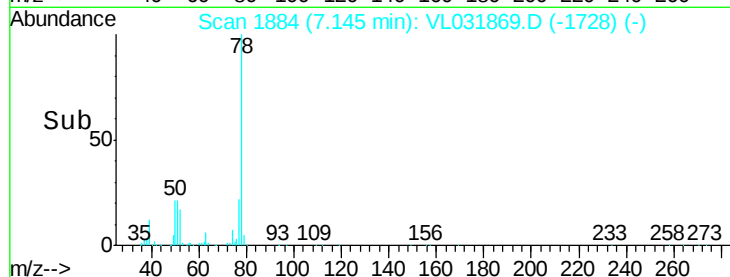
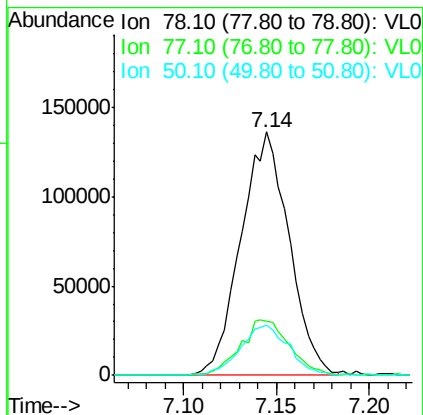
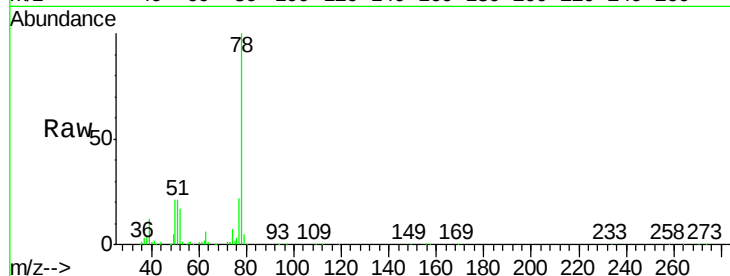
ClientSampleId :

SVE-INF2-040218

Tot Ion:	78	Resp:	243061
Ion	Ratio	Lower	Upper
78	100		
77	22.0	19.2	28.8
50	20.7	16.7	25.1

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#38

Trichloroethene

Concen: 12.427 ppbv

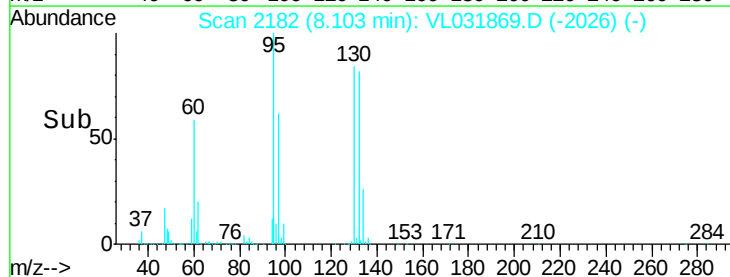
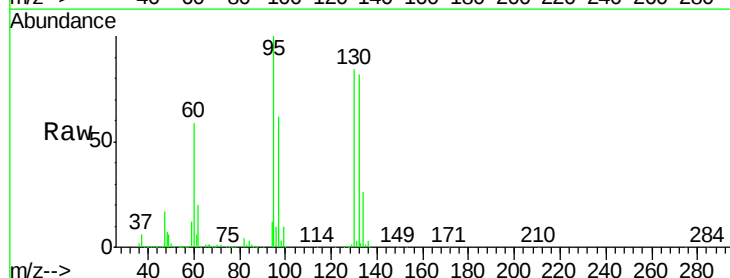
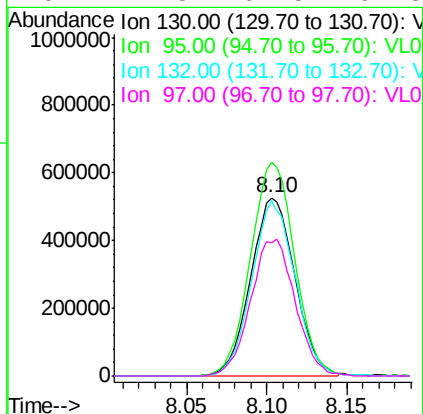
RT: 8.10 min Scan# 2182

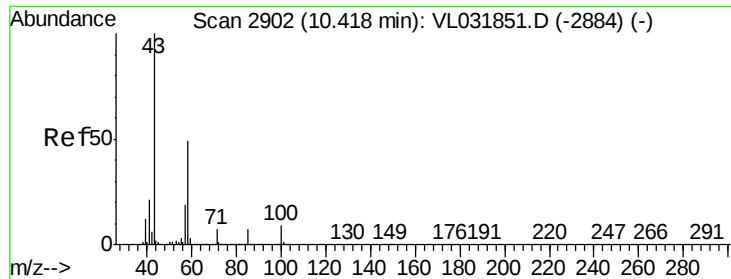
Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Tgt Ion:	130	Resp:	999588
Ion	Ratio	Lower	Upper
130	100		
95	119.7	96.6	144.8
132	98.2	79.1	118.7
97	74.8	61.5	92.3





#51

2-Hexanone

Concen: 0.248 ppbv m

RT: 10.44 min Scan# 2909

Delta R.T. 0.02 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

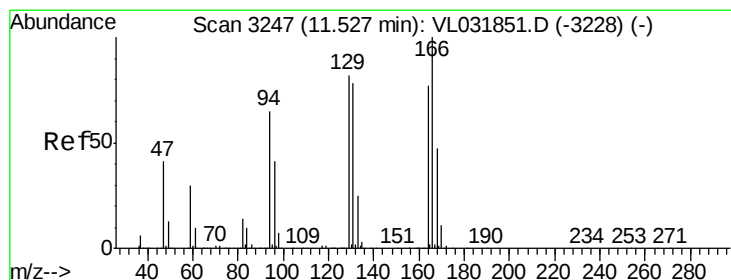
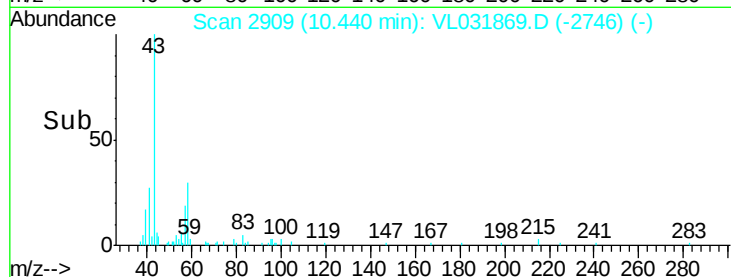
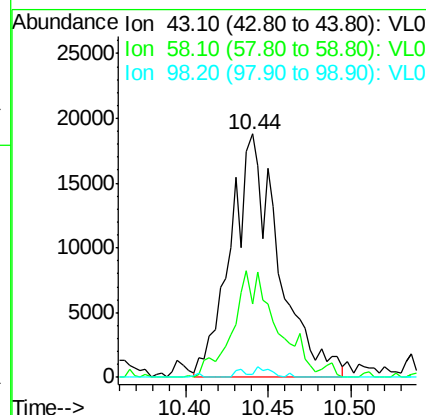
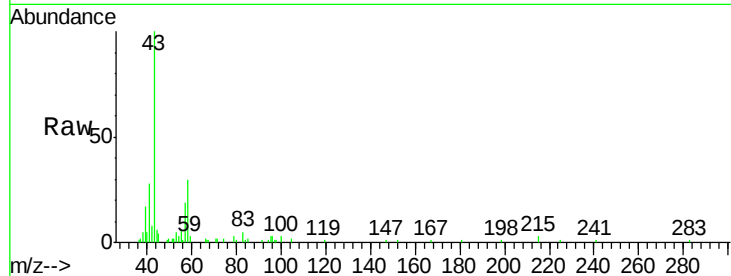
ClientSampleId :

SVE-INF2-040218

Tot Ion:	43	Resp:	37854
Ion Ratio	Lower	Upper	
43	100		
58	0.0	38.5	57.7#
98	0.0	0.2	0.4#

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#52

Tetrachloroethene

Concen: 0.336 ppbv m

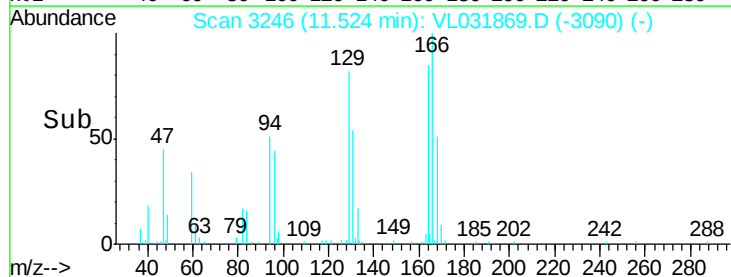
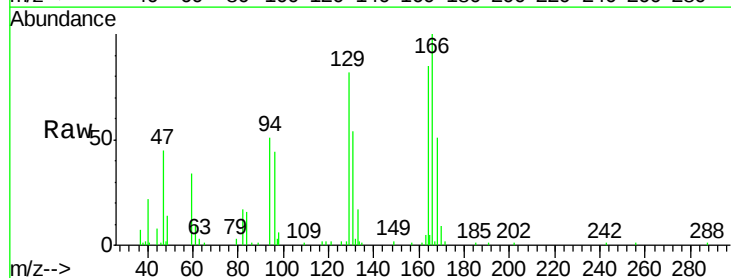
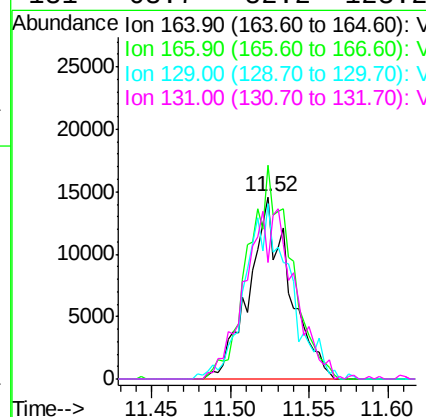
RT: 11.52 min Scan# 3246

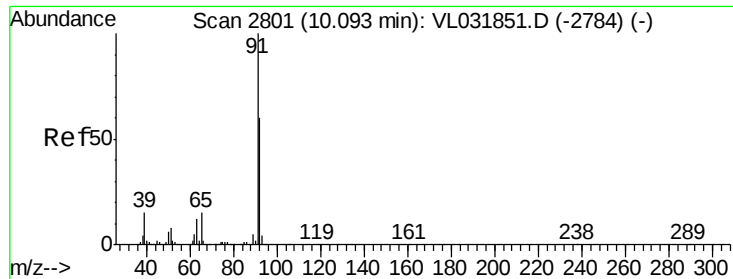
Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Tgt Ion:	164	Resp:	25975
Ion Ratio	Lower	Upper	
164	100		
166	117.2	98.2	147.4
129	96.0	86.5	129.7
131	63.7	82.2	123.2#





#53

Toluene

Concen: 0.225 ppbv m

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF2-040218

Tot Ion: 91 Resp: 49693

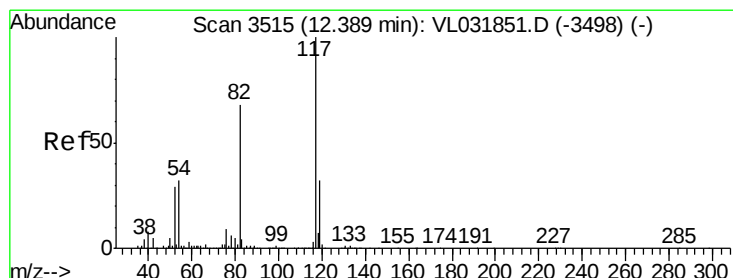
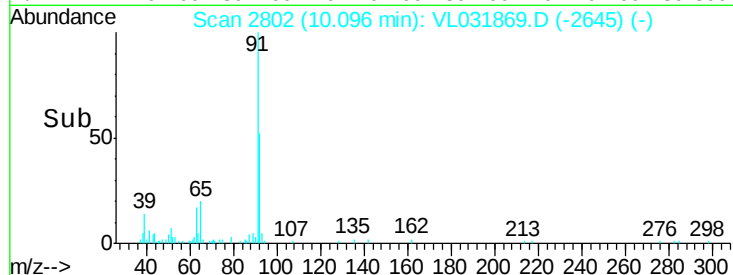
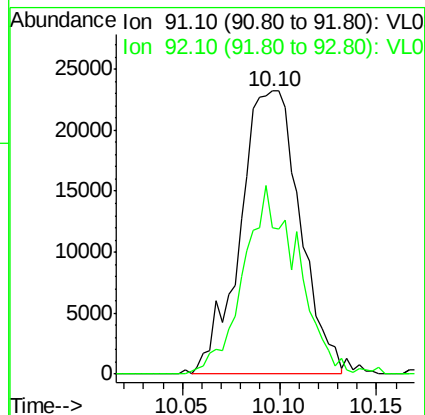
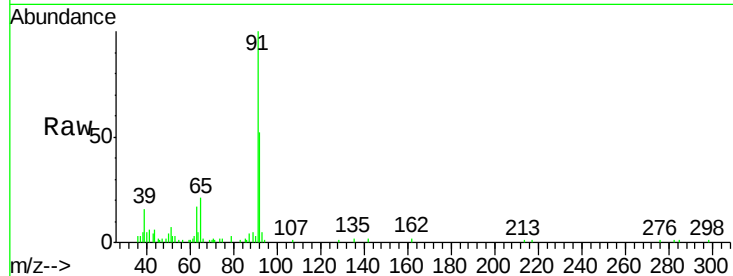
Ion Ratio Lower Upper

91 100

92 60.5 47.4 71.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.39 min Scan# 3515

Delta R.T. -0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

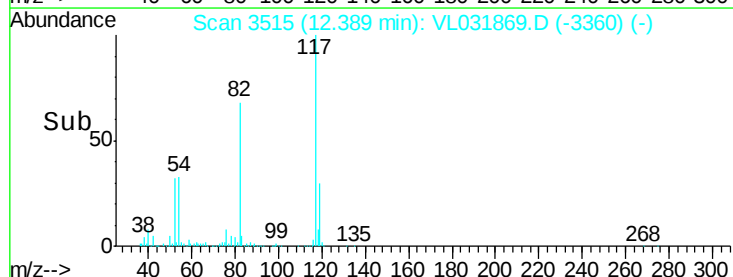
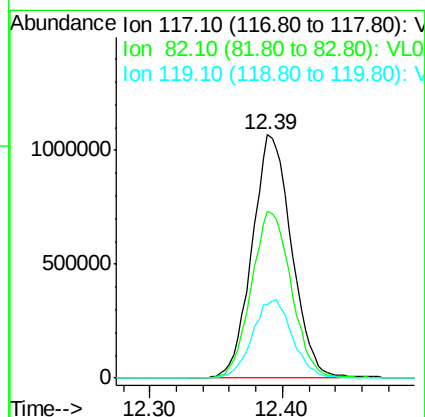
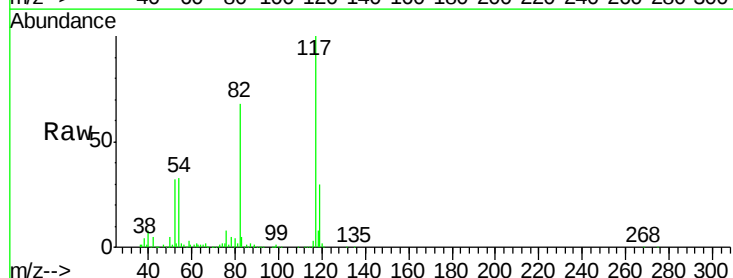
Tgt Ion: 117 Resp: 2212158

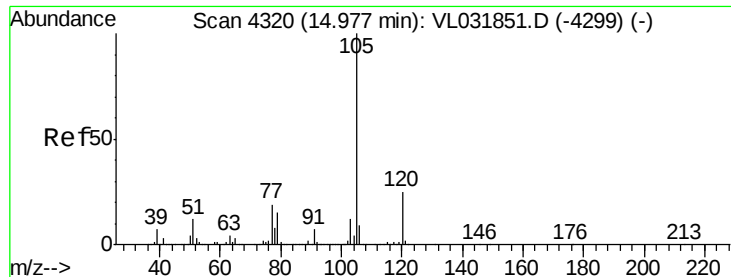
Ion Ratio Lower Upper

117 100

82 70.1 54.6 81.8

119 32.7 26.0 39.0





#62

Isopropylbenzene

Concen: 0.343 ppbv m

RT: 14.97 min Scan# 4319

Delta R.T. -0.01 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF2-040218

Tot Ion: 105 Resp: 117585

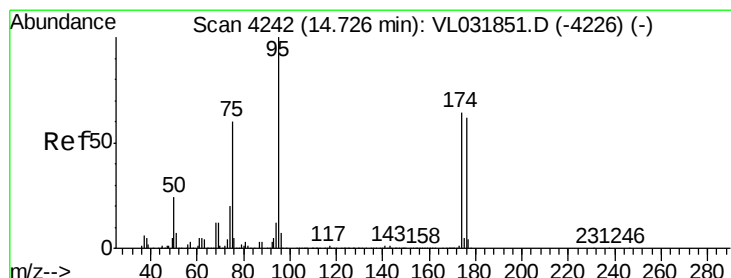
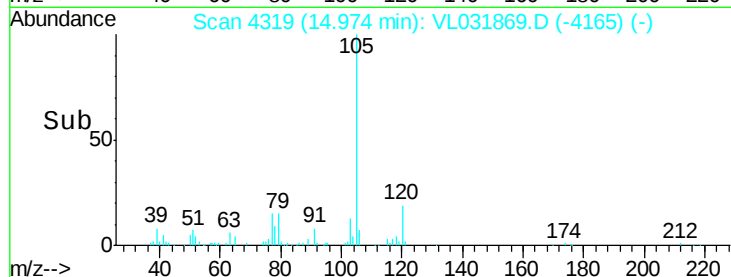
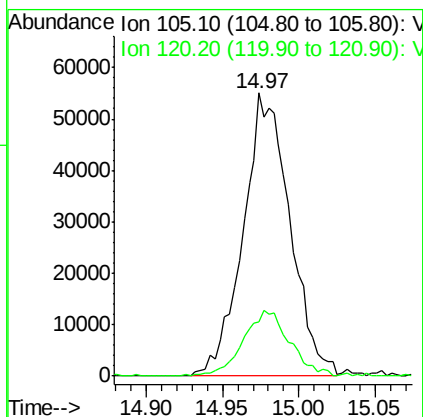
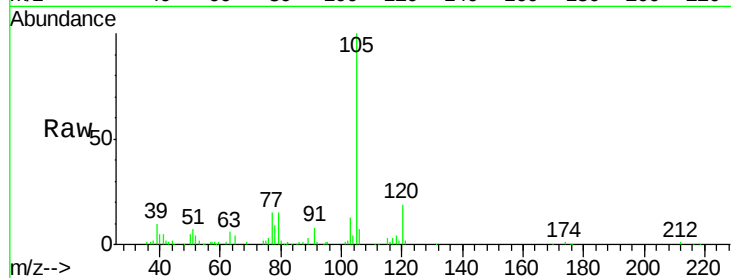
Ion Ratio Lower Upper

105 100

120 23.2 19.4 29.2

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.803 ppbv

RT: 14.73 min Scan# 4242

Delta R.T. -0.00 min

Lab File: VL031869.D

Acq: 12 Apr 2018 17:27

Tgt Ion: 95 Resp: 1743654

Ion Ratio Lower Upper

95 100

174 65.8 52.3 78.5

175 4.7 3.9 5.9

